

AMENDMENTS

IN THE CLAIMS:

Please amend the claims to read as follows:

- 1-33. (canceled).
34. (currently amended) **A** ~~[[P]]~~process for preparing acarbose, comprising the steps of:
- (i) **expressing DNA in a suitable transforming a host cell with a recombinant DNA molecule which comprises acarbose-synthesizing genes, and**
  - (ii) **culturing said host cell under conditions such that said DNA molecule is expressed, and said acarbose is synthesized, and**
  - (iii) isolating **said acarbose** from culture supernatants of said host cell **acarbose**, wherein said DNA **molecule** is selected from the group consisting of (a) **the nucleotide sequence of SEQ ID NO:7; (b) a nucleotide sequence which is capable of hybridizing, under stringent conditions, with the sequence of SEQ ID NO:7; (c)** nucleotides 1-720 of ~~Table 4~~ **SEQ ID NO:7; (d)** nucleotides 720~~[[to]]~~-2006 of ~~Table 4~~ **SEQ ID NO:7; ([c]]e)** nucleotides 2268-3332 of ~~Table 4~~ **SEQ ID NO:7; ([d]]f)** nucleotides 3332-4306 of ~~Table 4~~ **SEQ ID NO:7; ([e]]g)** nucleotides 4380-5414 of ~~Table 4~~ **SEQ ID NO:7; and ([f]]h)** nucleotides 5676-6854 of ~~Table 4~~ **SEQ ID NO:7.**
35. (currently amended) **A** ~~[[P]]~~process for preparing acarbose according to Claim 34, wherein said host cell is selected from the group consisting of ~~E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella or Streptosporangium strains, Streptomyces hygroscopicus var. limoneus or~~

~~Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum and Saccharomyces cerevisiae~~ E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella or Streptosporangium strains, Streptomyces hygrosopicus var. limoneus or Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum and Saccharomyces cerevisiae.

36. (currently amended) **A** ~~[[P]]~~process for preparing acarbose comprising the steps of:
- (i) eliminating ~~DNA in a natrual acarbose~~ or altering endogenous acarbose-synthesizing genes in a transformed, naturally-producing acarbose host cell; and,
  - (ii) culturing said host cell under conditions such that the remaining genes are expressed, and acarbose is synthesized; and,
  - (iii) isolating acarbose from said host cell; wherein said ~~DNA is~~ remaining genes alter the acarbose biosynthesis rate, and are selected from the group consisting of (a) nucleotides 1-720 of ~~Table 4~~ SEQ ID NO:7, (b) nucleotides 720~~[[to]]~~-2006 of ~~Table 4~~ SEQ ID NO:7; (c) nucleotides 2268-3332 of ~~Table 4~~ SEQ ID NO:7; (d) nucleotides 3332-4306 of ~~Table 4~~ SEQ ID NO:7; (e) nucleotides 4380-5414 of ~~Table 4~~ SEQ ID NO:7; and (f) nucleotides 5676-6854 of ~~Table 4~~ SEQ ID NO:7.
37. (currently amended) **A** ~~[[P]]~~process for preparing acarbose according to Claim 36, wherein said host cell is selected from the group consisting of ~~streptomyces glaucescens GLA.O and Actinoptanes sp~~ streptomyces glaucescens GLA.O and Actinoplanes sp.

38-48. (canceled).